CLAIMS

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What is Claimed Is:

2	disk drive, to minimize track mis-registration, comprising:
3	means for moving said slider parallel to said rotating disk surface toward said track
4	when said rotating disk surface is flat, by moving said actuator arm by a lever action through a
5	principal axis with said slider parallel said rotating disk surface and flexibly mounted by a
6	flexure at a second bias angle to said actuator arm;
7	wherein a read-write head is encapsulated in said slider facing said rotating disk
8	surface about a radial center in said hard disk drive;
9	wherein said read-write head is communicatively coupled with said rotating disk
10	surface to communicatively access said track; and

A mechanism moving a slider toward a track on a rotating disk surface in a hard

1 2. The mechanism of Claim 1, wherein said flexure is mounted to said actuator arm 2 at said second bias angle.

angle causing said slider to radially move with respect to said track.

means for radially moving said slider toward said track when said rotating disk surface is

bent, by said flexure responding as said rotating disk surface is bent through said second bias

- The mechanism of Claim 2, wherein at least two welds mount said flexure to said actuator arm at said second bias angle.
 - 4. The mechanism of Claim 3, wherein at least two welds mount said flexure to a load beam coupled to said actuator arm at said second bias angle.

- The mechanism of Claim 1, wherein said slider mounts to said flexure at said second bias angle.
- 1 6. The mechanism of Claim 1, wherein said second bias angle is between one-half degree and three degrees.
- 7. The mechanism of Claim 6, wherein said second bias angle is between threequarters degree and five-halves degrees.
- 8. A head gimbal assembly aligned by said principal axis of Claim 1, comprising: said slider flexibly mounted by said flexure to said head gimbal assembly at said second bias angle.
- 9. Said actuator arm of Claim 1, comprising: said slider flexibly mounted by said flexure at said second bias angle to said actuator arm.
 - 10. Said hard disk drive of Claim 1.
- 1 11. A method of moving a slider toward a track on a rotating disk surface in a hard 2 disk drive, to minimize track mis-registration, comprising the steps:
 - moving said slider parallel to said rotating disk surface toward said track, when said rotating disk surface is flat, by moving said actuator arm by a lever action through a principal axis with said slider parallel said rotating disk surface and flexibly mounted by a flexure at a second bias angle to said actuator arm;
- wherein a read-write head is encapsulated in said slider facing said rotating disk surface about a radial center in said hard disk drive;

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- wherein said read-write head is communicatively coupled with said rotating disk surface to communicatively access said track; and radially moving said slider toward said track when said disk surface is bent, by said flexure responding as said rotating disk surface is bent through said second bias angle causing said slider to radially move with respect to said track.
- 1 12. The method of Claim 11, wherein said flexure is mounted to said actuator arm at 2 said second bias angle.
- 1 13. The method of Claim 12, wherein at least two welds mount said flexure to said actuator arm at said second bias angle.
- 1 14. The method of Claim 13, wherein at least two welds mount said flexure to a load 2 beam coupled to said actuator arm at said second bias angle.
- 1 15. The method of Claim 11, wherein said slider mounts to said flexure at said second 2 bias angle.
 - 16. The method of Claim 11, wherein said second bias angle is between one-half degree and three degrees.
- 1 17. The method of Claim 16, wherein said second bias angle is between three-2 quarters degree and five-halves degrees.

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